all that the tend of t

5

CLAIMS

What is claimed is:

1. A storage box for use with vehicles comprising:

a) a base structure;

b) a lid, pivotally connected to the base structure, shaped to enclose a

portion of the base structure;

c) divider means, pivotally connected to the base structure, for dividing the

storage box into two compartments for holding articles;

d) divider coupling means, connected to the divider means and the lid, for

releasably coupling the divider means to the lid; and

e) lid coupling means, connected to the lid and the base structure, for

releasably coupling the lid to the base structure, and having a first

coupling position occurring when the lid is in an opened position.

2. The storage box of claim 1, wherein the lid coupling means comprises a lid latch

coupled to the lid, and lid actuator means, rotatably coupled to the base

structure, for engaging and latching the lid latch while in the first coupling,

opened position.

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633

"..." 10"

M.

171 F. 25

Health and the state that the state of the s

15<sup>Lab</sup>

3. The storage box of claim 2, wherein the lid actuator means comprises: a hooking

cam for facilitating closing and securing the lid to the base structure, the

hooking cam on the lid actuator engages the lid latch device while lid is in an

opened position such that, as the lid actuator is rotated, the lid latching

means tracks along the hooking cam of the lid actuator wherein the lid is

pulled down, the lid being securely closed upon complete travel of the lid

latch device along the hooking cam, the lid actuator means rotating

substantially 180 degrees such that the lid latch is forced through cam action

motion.

4. The storage box of claim 3, wherein the hooking cam comprises a hook, a cam,

and a notch, wherein the notch is shaped and positioned to receive and

retain the lid actuator when the lid is in a closed and secured position.

5. The storage box of claim 1, wherein the lid coupling means comprises a first and

second lid actuator and a first and second lid latch.

6. The storage box of claim 5, wherein the first and second lid actuators are

coupled together by a lid actuator connector for simultaneous operation of

the first and second lid actuators.

20

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633

structure, the divider and the lid, such that the lid and the divider pivot around the same axis.

- 12. The storage box of claim 11, wherein the first and second divider actuators are coupled together by a divider actuator connector for simultaneous operation
- of the first and second divider actuators.
  - 13. The storage box of claim 1, further comprising a single hinge connecting the base structure, the divider means and the lid, such that the lid and the divider means pivot around the same axis.

with the first three trips in the state of t

14. A vehicle storage box comprising:

a) a base structure;

b) a lid, pivotally connected to the base structure, shaped to enclose the

base structure;

c) a divider, pivotally connected to the base structure, shaped to divide the

storage box into two compartments for holding articles;

d) a divider coupler, connected to the divider and the lid, shaped to

releasably couple the divider means to the lid; and

e) a lid coupler, connected to the lid and the base structure, shaped to

releasably couple the lid to the base structure, the lid coupler having

a first coupling position occurring when the lid is in an opened

position.

15. The vehicle storage box of claim 14, wherein the lid coupler comprises a lid

latch coupled to the lid, and a lid actuator, rotatably coupled to the base

structure, for engaging and latching the lid latch while in the first coupling,

opened position.

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633

the first that the state that the st

He with the state of the state

15

16. The vehicle storage box of claim 15, wherein the lid actuator comprises: a

hooking cam for facilitating closing and securing the lid to the base structure.

the hooking cam on the lid actuator engages the lid latch device while lid is

in an opened position such that, as the lid actuator is rotated, the lid latch

tracks along the hooking cam of the lid actuator wherein the lid is pulled

down, the lid being securely closed upon complete travel of the lid latch

device along the hooking cam, the lid actuator rotating substantially 180

degrees such that the lid latch is forced through cam action motion.

17. The storage box of claim 16, wherein the hooking cam comprises a hook, a

cam, and a notch, wherein the notch is shaped and positioned to receive and

retain the lid actuator when the lid is in a closed and secured position.

18. The vehicle storage box of claim 14, wherein the lid coupler comprises a first

and second lid actuator and a first and second lid latch.

19. The vehicle storage box of claim 18, wherein the first and second lid actuators

are coupled together by a lid actuator connector for simultaneous operation

of the first and second lid actuators.

20

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633

10

udla Rom Butt

amp dank

Hart Hall Hard

21. The vehicle storage box of claim 15, wherein the lid actuator is supported by

20. The vehicle storage box of claim 19, wherein the lid actuator connector

comprises a cable and pulley system wherein a pulley is coupled to each of

the lid actuators and connected by a cable, the pulley having a cable set

screw positioned to engage and secure the cable in a fixed orientation and

a stabilizer attached to the base support and coupled to the lid actuator.

22. The vehicle storage box of claim 21, wherein the stabilizer is a threaded eyelet

screw coupled to the lid actuator at the eyelet end and a bracket at the

threaded end, the bracket attached to the base support.

23. The vehicle storage box of claim 18, wherein the first and second lid latches

are substantially L-shaped members having a latching point for engaging

respectively the first and second lid actuators.

24. The vehicle storage box of claim 14, wherein the divider coupler comprises a

first and second divider actuator coupled to the lid and a first and second

divider latch coupled to the divider.

to allow for adjustment of the cable.

20

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633

the first plant of the plant and plant and the plant of t

5

25. The vehicle storage box of claim 24, wherein the first and second divider

actuators are coupled together by a divider actuator connector for

simultaneous operation of the first and second divider actuators.

26. The vehicle storage box of claim 14, further comprising a single hinge

connecting the base structure, the divider and the lid, such that the lid and

the divider pivot around the same axis.

Thorpe, North & Western, L.L.P. P.O. Box 1219 Sandy, Utah 84091-1219

Telephone: (801) 566-6633